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GLASS COMPOSITION, ITS PRODUCTION AND PRODUCTION OF GLASS FIBER

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HOSHINO KOICHI; KANO KOJI; KANAMORI TERUHISA; SHIMIZU MAKOTO

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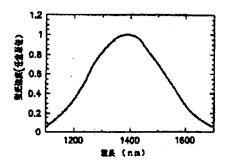
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Abstract of JP2000302477

PROBLEM TO BE SOLVED: To obtain a glass composition having exhibiting tase r-oscillation or optical amplification activities in an extremely wide wave length range, and having wide luminous characteristics having the center water length In 1.2-1.6 & mu m zone important for an optical communication wave length range and usable for a laser or optical amplification, and ferromagnetic characteristics capable of being applied to a powder permanent magnet, and further to provide a method for producing the glass composition. SOLUTION: A fine crystal containing luminous species N 2+ ion and a fine particle of ferromagnetic metal Ni in a glass is formed by using a glass composition consisting essentially of at least one kind of SiO2 or GeO2, at least one kind selected from Al2O3 and Ga2O3, at least one kind selected from ZnO, TiO2 and Nb2O5, an alkali metal oxide and an alkaline earth metal oxide, and controlling the conditions for glass synthesis and reheating treatment.



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